

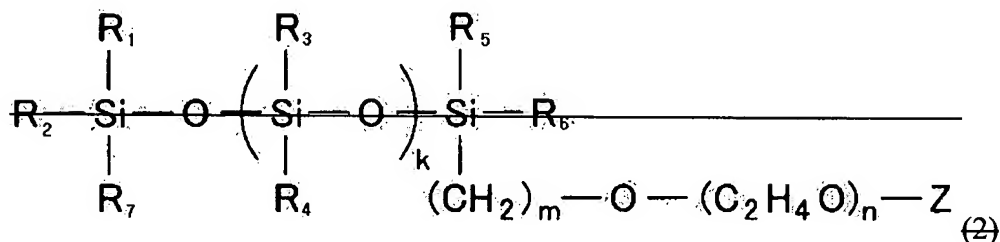
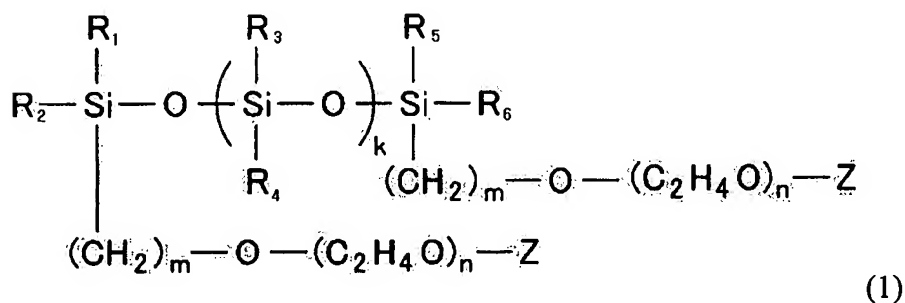
Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Please amend claims

1. (Currently Amended) A non-aqueous electrolyte comprising:
a cyclic carbonate;
a lithium salt; and
a polyether-modified silicon oil represented by ~~formulas 1 or 2~~ formula 1 in which a polyether chain is bonded to a terminal end of a linear polysiloxane chain:



where k is an integer from 0 to 10;

m is a natural number from 2 to 4;

n is a natural number from 1 to 4;

R₁ to R₇ are independently or identically, selected from hydrogen or C₁ to C₅ alkyls; and

Z is CH₃ or C₂H₅.

Appln No. 10/754,453
Amdt date April 10, 2007
Reply to Office action of January 10, 2007

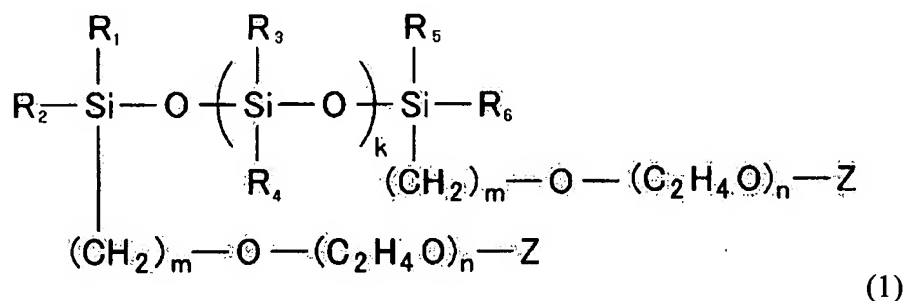
2. (Original) The electrolyte of claim 1, wherein the polyether-modified silicon oil has a viscosity of less than 10cSt at 25°C.

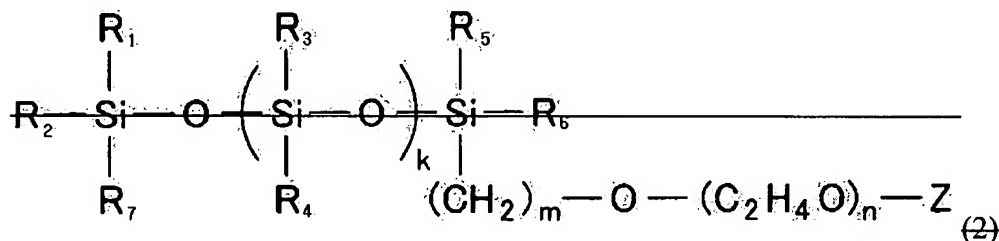
3. (Original) The electrolyte of claim 1, wherein the polyether-modified silicon oil has a flash point of 120°C or more.

4. (Original) The electrolyte of claim 1 further comprising a chain carbonate.

5. (Original) The electrolyte of claim 1 further comprising a fluorinated cyclic carbonate.

6. (Currently Amended) A rechargeable lithium battery comprising:
a positive electrode;
a negative electrode; and
a polyether-modified silicon oil represented by ~~formulas 1 or 2~~ formula 1 in which a polyether chain is bonded to a terminal end of a linear polysiloxane chain, a cyclic carbonate and a lithium salt:





where k is an integer from 0 to 10;

m is a natural number from 2 to 4;

n is a natural number from 1 to 4;

R₁ to R₇ are independently or identically, selected from hydrogen or C₁ to C₅ alkyls; and

Z is CH₃ or C₂H₅.

7. (Original) The rechargeable lithium battery of claim 6, wherein the negative electrode comprises a thin layer comprising a compound selected from the group consisting of polyacrylate compounds, aziridine compounds, fluorinated cyclic carbonates and mixtures thereof.

8. (Original) The rechargeable lithium battery of claim 6, wherein the non-aqueous electrolyte further comprises a chain carbonate.

9. (Original) The rechargeable lithium battery claim 6, wherein the non-aqueous electrolyte further comprises a fluorinated cyclic carbonate.

10. (Currently Amended) An electrolyte for a rechargeable lithium battery comprising:

a polyether-modified silicon oil having a viscosity of less than 10cSt, a cyclic carbonate, and a lithium salt, wherein the polyether-modified silicon oil includes end silicons, wherein ~~at least one~~ each end Si atom includes a terminal bond to a polyether group.

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11. (Original) The electrolyte of claim 10, wherein the polyether-modified silicon oil has a flash point of 120°C or more.

12. (Original) The electrolyte of claim 10 further comprising a chain carbonate.

13. (Original) The electrolyte of claim 10 further comprising a fluorinated cyclic carbonate.

14. (Currently Amended) A rechargeable lithium battery comprising:
a positive electrode;
a negative electrode; and
an electrolyte comprising a polyether-modified silicon oil having a viscosity of less than 10cSt, a cyclic carbonate, and a lithium salt wherein the polyether-modified silicon oil includes end silicons with terminal bonds consisting of Si-C or Si-H bonds and wherein ~~at least one~~ each end Si atom includes a terminal bond to a polyether group.

15. (Original) The rechargeable lithium battery of claim 14, wherein the negative electrode comprises a thin layer comprising a compound selected from the group consisting of polyacrylate compounds, aziridine compounds, and fluorinated cyclic carbonates, or a combination thereof on a surface thereof.

16. (Original) The rechargeable lithium battery of claim 14, wherein the electrolyte further comprises a chain carbonate.

17. (Original) The rechargeable lithium battery claim 14, wherein the electrolyte further comprises a fluorinated cyclic carbonate.